

155903

Wednesday, January 18, 2017 7:42:26 AM

N900040100

Setup Start *NS1*

Stop *NS2*

20

JAN 25 2003

Required Date: 1/17/2017 **Req'd Qty:** 20.00

Cust Item ID:

Customer:

Reference:

Date: JAN 20 2017

Tooling:

Date: _____

Run Start *NR1*

Date:

SPC (Y/N):

Date:

Stop *NR2*

[illegible]

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER :									

Wednesday, January 18, 2017 7:42:26 AM

155903

N9000401 00

Setup Start *NS1*

Stop ***NS2***

20

Cust Item ID:

Start Date: 1/12/2017 **Start Qty:** 20.00

Required Date: 1/17/2017 **Req'd Qty:** 20.00

20

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

**Insp.
Stamp**

Identify as per dwg & Stock Location.

n. SH638

0.00

130

0.03

Packaging

Memo

Packaging

JAN 31 2017

DAS
6
9-89

QC21- Final Inspection - Work Order Release

0.00

140

0.33

QC

Memo

Quality Control

17/01/31

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

Picklist Print

Tuesday, January 17, 2017 1:57:51 PM

Page 1

Work Order ID: 155903

155903

Parent Item: D4730-020

D4730-020

Parent Item Name: Velcro Hook & Loop 2" Wide

Start Date: 1/12/2017

Required Date: 1/17/2017

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP REV:A 12.11.09 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
9273K43		Purchased	No				f	0.0000		20 50			
9273K43									**				
Velcro Hook & Loop Color: Black													

FEB 01 2017

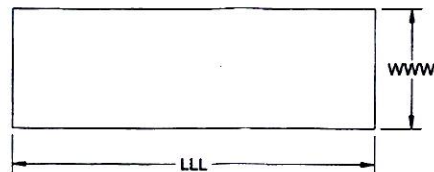
DAS
9-89



Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐						OTHER :	

SPECIFICATION CONTROL DRAWING



WHERE WWW = WIDTH IN INCHES (IN TENTHS OF INCH)
LLL = LENGTH REQUIRED (IN TENTHS OF INCH)

EG: 2.0 WIDTH x 3.5" LONG VELCRO STRIP: D4730-020-035
0.75 WIDTH x 15.2" LONG VELCRO STRIP: D4730-008-152

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 155903 MCT

17 01-20

DART PART NUMBER	DESCRIPTION	MATERIAL	POSSIBLE VENDOR	MAKE FROM VENDOR PART NUMBER	LENGTH (ft)	COLOR
D4730-WWW-LLL	GENERAL PURPOSE HOOK + LOOP	NYLON (ADHESIVE BACK)	McMASTER-CARR	9273K16 9273K23 9273K29 9273K36 9273K43 9273K48	5 10 15 30 50 75	BLACK

D4730-WWW-LLL VELCRO STRIP

RELEASED
2013-01-30

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: PER QSI 044 6.7
- 7) WEIGHT: N/A

B	ADD COLOR (ZN B2-1)	RF	12.11.30
A	NEW ISSUE	RF	12.07.25
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.11.30		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO. **D4730**
REV. B
SHEET 1 OF 1
TITLE **VELCRO STRIP**
SCALE NTS

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WRITTEN PERMISSION FROM DART AEROSPACE LTD.

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO35081

Order Placed By
Chantal Lavoie

McMaster-Carr Number
6168740-02

Page 1 of 2

01/25/2017

Line	Product	Ordered	Shipped
1	91525A120 316 Stainless Steel Washer Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	1 Pack	1
2	9273K43 General Purpose Nylon Hook and Loop 2" Width x 50' Length, Adhesive Back, Black	1 Each	1
3	6641A41 Loctite Gasket Maker #598, 2.36 oz. Tube	12 Each	12
4	4690A21 2-3/4" Overall Length Shank Adapter, for 3/4" - 1" Long Spiral-Wound Sanding Roll	3 Each	3
5	4690A631 Spiral-Wound Sanding Roll Multipurpose Straight, 320 Grit, 1/4" Diameter, 1" Long, Packs of 25	2 Packs	2
6	4690A621 Spiral-Wound Sanding Roll Multipurpose Straight, 180 Grit, 1/4" Diameter, 1" Long, Packs of 25	2 Packs	2
7	23325A11 Plastic Level with Angle Indicator, Magnetic, Black	2 Each	2
8	5302A1 Drum-Plug Wrench Ductile Iron, 15-5/8" Overall Length	2 Each	2
10	40035T24 Lid for Funnel for Closed Head Drums	2 Each	2
11	4548K134 Standard-Wall 316/316L Stainless Steel Pipe Nipple Threaded on Both Ends, 1/4 Pipe Size, 2-1/2" Long	1 Each	1
12	4452K163 316 Stainless Steel Threaded Pipe Fitting Low-Pressure, Bushing Adapter, 3/8 Male x 1/4 Female	1 Each	1
13	4452K473 316 Stainless Steel Threaded Pipe Fitting Low-Pressure, 90 Degree Adapter, 3/8 NPT Female x Male	2 Each	2
14	53505K41 316 Stainless Steel Barbed Hose Fitting 90 Degree Elbow, for 1/4" Hose ID, 1/8 NPT Male End	2 Each	2
15	53505K42 316 Stainless Steel Barbed Hose Fitting 90 Degree Elbow, for 1/4" Hose ID, 1/4 NPT Male End	1 Each	1
16	53505K64 316 Stainless Steel Barbed Hose Fitting Straight, for 1/4" Hose ID, 1/4 NPT Male End	2 Each	2
17	5361K71 304 Stainless Steel Barbed Hose Fitting for 1/4" x 1/4" Hose ID	1 Each	1
18	4548K381 Standard-Wall 316/316L Stainless Steel Pipe Nipple Fully Threaded, 3/8 Pipe Size	1 Each	1
19	45695K13 Easy-Clean Valve for Chemicals On/Off Function, 3/8 NPT Female	1 Each	1
20	5361K33 304 Stainless Steel Barbed Hose Fitting 1/4" Hose ID, 3/8 NPT Male End, Packs of 1	1 Pack	1

DAS
38
3-89

DAS
6
3-89

JAN 30 2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35081**

Purchase Order Date 1/25/2017

PO Print Date 1/25/2017

Page Number 1 of 8

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

JAN 25 2017
E-MAILED

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	91525A120	washer	1/27/2017 Yes 1/27/2017		25.00 Each	\$0.23	\$5.80

AS PER DWG D3556 REV. A
B155548

Line Total: \$5.80

2, 9273K43
Velcro Hook & Loop
Color: Black

1/27/2017

Yes

1/27/2017

50.00

Each

\$2.10

\$105.21

AS PER DWG D4730 REV. B
B155903

DAS
6 JAN 30 2017
9-89

Line Total: \$105.21

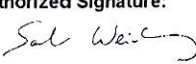
DAS
38
9-89

Note:

1/25/2017

McMaster-Carr Supply Company 200 Aurora Industrial Pkwy Aurora, OH 44202-8087 USA Phone: 330-995-5500 Fax: 330-995-9600 E-Mail: cle.sales@mcmaster.com Employer Identification Number (EIN): 36-1458720		Invoice: 10075358 Purchase Order: PO35081 Release: McMaster-Carr Number: 6168740-02		ORIGINAL COMMERCIAL INVOICE CERTIFICATE OF ORIGIN	
Ultimate Destination: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada		Shipped: 25-Jan-2017		FOB: ORIGIN	
		Shipper's Export Declaration (SED): NO EEI 30.36			
Intermediate Consignee:		Bill To: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada			
		Tax Number:			
Forwarding Agent:		Billing Attention:			
		Shipping Attention:			
		Contact:			

Line	Description	Qty & Unit	Unit Price	Extension
1	91525A120 316 Stainless Steel Washer Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25 Country of Origin: Taiwan Schedule B #: 731822 ECCN #: EAR99 NLR	1 PK	\$5.80	\$5.80
2	9273K43 General Purpose Nylon Hook and Loop 2" Width x 50' Length, Adhesive Back, Black Country of Origin: United States Schedule B #: 580610 ECCN #: EAR99 NLR	1 EA	\$105.21	\$105.21
3	6641A41 Loctite Gasket Maker #598, 2.36 oz. Tube Country of Origin: United States Schedule B #: 321410 ECCN #: EAR99 NLR	12 EA	\$14.49	\$173.88
4	4690A21 2-3/4" Overall Length Shank Adapter, for 3/4" - 1" Long Spiral-Wound Sanding Roll Country of Origin: Peoples Republic of China Schedule B #: 846693 ECCN #: EAR99 NLR	3 EA	\$2.19	\$6.57
Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.				

Shipping Weight (in kgs): 11		Number of Packages: 1		Invoice Amounts:	
Package Dimensions: 52 X 52 X 43 CM = .114 CUBIC M		Merchandise Amount: \$775.32 Canadian GST/HST: \$103.69 Shipping Charges: \$22.28 Total (In USD): \$901.29		Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days	
				Remit payment to: (by wire transfer) Bank of America 222 Broadway New York, NY 10038 Account 86666-02021 SWIFT BOFAUS3N	
				Authorized Signature: 	
Date: 25-Jan-2017		(by mail) McMaster-Carr Supply Company PO Box 7690 Chicago, IL 60680-7690 USA			
Name: Sarah Weinberg		Title: Operations Mgr.		Page 1 of 3	